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ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL 312-663-9415

International Specialists in the Environment

Date Received for Review: 6-19-86 Date Review Completed: 6-20-86To: Larry LumahFrom: Cynthia PughSubject: Mobil Oil Corp. (Indiana)
(RS- 8307-4C)Sample Description: Case # 5839: Low Soil OrganicsProject Data Status: Still Awaiting Low Soil Metals + CyanideFIT Data Review Findings: DATA ACCEPTABLE-

See attached review and qualifications noted. Also Refer to User's Comments Section.

Additional Comments:

Book No. 5
Page No. 124

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 6/17/86

SUBJECT: Review of Region V CLP Data
Received for Review on _____ 21 MAY 86 _____

FROM: Curtis Ross, Director (SSCRL) *Francis Thomas*
Central Regional Laboratory

TO: Data User: _____ FIT _____

We have reviewed the data for the following case(s).

SITE NAME _____ MOBIL OIL CORP. _____ SMO Case No. 5839 _____
NO. OF D.U./ACTIVITY

EPA DATA SET NO SF_3170 SAMPLES_3 NUMBERS Y905/C48500

CRL No: 86FL05S87 - 86FL05S89

SMO Traffic No. EH 601 TO EH 603 Hrs. Required

CLP Laboratory: ANALYTICAL RESOURCES for Review: 4

Following are our findings.

1 TIMES ACCEPTABLE

2 SURROGATES 4/6 PESTICIDES OUT. THIS MAY BE DUE TO THE
SAMPLE MATRIX PROBLEMS AND REQUIRED DILUTIONS.
OTHER FRACTION ARE ACCEPTABLE.

3 LAB BLANK ACCEPTABLE

4 TUNING ACCEPTABLE

5 CALIBRATION INITIAL

FOR VOA;
86-04-24 5 RF-AVE BETWEEN <0.30 AND >0.05
2-BUTANONE <0.05, THEREFORE THE COMPOUND WAS
NOT ANALYZED FOR. THE %RSD ARE ACCEPTABLE.

- () Data are acceptable for use.
(X) Data are acceptable for use with qualifications noted above.
() Data are preliminary - pending verification by contractor lab.
() Data are unacceptable.

cc: Dr. Alfred Haeber/ Joan Fisk/Gary Ward. EPA Support Services.
Ross K. Robeson, EMSL-LasVegas
Don Trees, CLP/Sample Management Office

*Received
6/17/86
J. F. F.*

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SITE NAME _____ MOBIL OIL CORP. _____ SMO Case No. _ 5839 _____

FOR SV;
86-05-01 ACCEPTABLE

CONTINUOUS
FOR VOA;
86-04-25 4 RF BETWEEN <0.30 AND >0.05
2-BUTANONE <0.05, THEREFORE, IS NOT ANALYZED FOR.
4 %D > 25%.
FOR SV;
86-05-05 RF ACCEPTABLE
TL TC 2 %D >25%.

G PESTICIDES ACCEPTABLE

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<<< U S E R ' S I N F O R M A T I O N >>>
SITE NAME MOBIL OIL CORP. SMO Case No. 5839

DATE: 4 JUNE 86

REVIEWER: TOM CLYNE
ECOLOGY & ENVIRONMENT

SUMMARY

THERE ARE SOME VERY HIGH HITS THAT CAN BE USED FOR HRS FOUND IN THIS CASE. THERE ARE VOA AROMATICS FOR TOLUENE, ETHYLBENZENE AND TOTAL XYLEMES. IN THE SV FRACTION, PAH's WERE FOUND FOR NAPHTHALENE, METHYLNAPHTHALENE, FLUORENE AND PHENANTHRENE. 2-BUTANONE WAS FOUND IN THE SAMPLES AND ACCORDING TO CALIBRATION PROTOCOL WAS NOT ANALYZED FOR. NO BIG DEAL, WE NORMALLY DON'T USE IT ANYWAY. THE ASSOCIATED TIC's FOR VOA ARE NUMEROUS HYDROCARBONS WHILE THE SV HAD BRANCH CHAIN HYDROCARBONS, HYDROCARBONS AND ISOMERS OF NAPHTHALENE.

PLEASE CHECK THE DADS TO SUMMARY FORM FOR CORRECT TRANSFER OF VALUES. THE HRS HITS ARE CIRCLED ON THE FORM AND THE SEMI-QUANTATIVE VALUES ARE IN BOXES.

THE CHROMATOGRAPHS FOR THE SV ARE TYPICAL "PICKET-FENCE" CURVES FROM HYDROCARBON COMPOUNDS. THE MASS SPECTRA MATCHED THE STANDARDS WELL.

TOM

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1	2	3	4	5	6	7	8	9	10
311	FT 60	601	R2	602	603				
310									
310									

COMPOUND:

shallow

breathes here

chloroethane

methyl chloride

ethylene

carbon disulfide

1,1-dichloroethane

1,1-dichloroethene

trans-1,2-dichloroethene

chloroform

1,2-dichloroethane

1,2-dichloroether

2-chloro-1,3-butadiene

1,1,1-trichloroethane

carbon tetrachloride

chloroform

1,1,2,2-tetrachloroethane

bromochloroethane

1,1,2,2-tetrachloroethene

trichloroethene

1,1,1,2-tetrachloroethane

benzene

cis-1,3-dichloropropene

2-chloroethyl vinyl ether

butanone

2-methyl-2-pentanone

hexachloroethane

toluene

chlorobenzene

styrene

total xylylene

benzene

phenol

stilbene

bis(2-chloroethyl)ether

2-chloroethanol

1,3-dichloroethene

1,4-dichloroethene

1,6-dichloroethene

1,2-dichloroethene

2-methylphenol

bis(2-chloroethyl)ether

acetophenone

hexachloroethane

methylbenzene

isobutene

2-nitropropano

benzaldehyde

benzyl alcohol

benzyl benzoate

benzyl chloride

benzyl cyanide

benzyl formate

benzyl iodide

benzyl nitrate

benzyl phenyl ether

benzyl sulfide

benzyl toluene

benzyl vinyl ether

benzylidenebenzene

STATE

CASE: 5039

) = the for HPS

J = sum of value

= normalized mean
an artifact
+ cK indicates an
estimated value
symmetric to -J
+ c

Please check

) A DS to

summary
for M.

Your

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CASE : 5839

O = use for HPS

\square = semi quantitative
= remarked
means an
artifact.

TC

ANALYTICAL RESOURCES, INC.

3008-B 16th W.
SEATTLE, WA 98119
(206) 285-1577

16 May 1986

RECEIVED JUN 19 1986

USEPA Contract Lab Program
Sample Management Office
300 N. Lee Street
Alexandria, VA 22314

RE: Samples submitted for full analysis as low soils from Region 5
listed as Case No. 5839 under Contract Number 68-01-7236

Dear Sir or Madam:

Please find enclosed the data for the above referenced case which includes the following sample numbers:

EH601

EH602

EH603

These samples were submitted as 'low concentration' sediments. They were therefore first extracted as low soils even though they seemed quite heavily contaminated. Screening of the low extracts proved these to be medium or even high level, therefore the samples were reextracted by the medium method. The medium level extracts had to be diluted for all phases of analysis.

Sample EH602 was first analyzed at a 1:10 dilution for semi-volatiles. As samples EH602MS and EH602MSD were analyzed at a 1:5 dilution, EH602 was reanalyzed at a 1:5 dilution and the 1:10 dilution not submitted as no further information of value can be obtained from the run.

All BAN aliquots were run through GPC clean-up before analysis.

Initial analysis of the pesticide/PCB extracts were off scale and required dilution and reinjection. The chromatograms of the initial runs have been included here, but no reports have been generated as no information could be obtained from these runs.

Respectfully submitted,



Susan D. Rosa
Project Manager

In Reference to Case No(s):

78-511

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

Telephone Record Log

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Date of Call: 5/26/86

Laboratory Name: Architectural Testing

Lab Contact: Susan E. Jones

Region: K

Regional Contact: Tony Clegg

Call Initiated By: Laboratory Region

In reference to data for the following sample number(s):

Summary of Questions/Issues Discussed:

When the telephone was disconnected from the telephone system?

What happened after the telephone was disconnected?

Summary of Resolution:

A call back (RDOPI)

The operator agreed to change the phone to the initial service if the initial problem continues or changes, if the telephone is not used for more than one week.

Signature

Paul L. Gray

Date

Distribution: (1) Lab Copy, (2) Region Copy, (3) SMO Copy

ANALYTICAL RESOURCES, INC.

3008-B 16th W.
SEATTLE, WA 98119
(206) 285-1577

Data Qualifiers EPA Report Format

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Value - If the result is a value greater than or equal to the detection limits, the value is reported.

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample based on necessary concentration/dilution action. The number is the minimum attainable detection limit for the samples as calculated from EPA protocol instrument detection limit calculations (three times the standard deviation of the lowest calibration standard analyzed three times).

U* - Indicates the compound was analyzed for and detected by the data system. Upon confirmation by spectral matching it was found that noise level is too high to confirm by ion matching, therefore a 'real' detection limit is calculated from signal-to-noise ratios (3 X the noise level) and level of response needed to get clean spectra.

T - Indicates trace amounts of analyte were found that in the expert opinion of the analyst are real (above 3 X signal-to-noise ratio with major ions present) but no clean spectra can be obtained because of background levels.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets EPA identification criteria but the result is less than the specified detection limit but greater than zero.

B - This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. Value not corrected for blank value.

K - This flag indicates an estimated value calculated from the data system quantitation when the value falls above the calibrated limit of the instrument.

Case No. 3889

Contract Laboratory ANALYTICAL RESOURCES, INC. Contract No. 68-01-7236

Low _____ Medium X

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

Volatile: 2 out of 24; outside of QC limits
Semi-Volatile: 0 out of 42; outside of QC limits
Pesticides: 4 out of 6; outside of QC limits

7/85

***** ADVISORY LIMITS ONLY**

Comments: EFK03-dg-Toluene near DL - manually quant'd as missed by data system

EMGOI RI - all Surrogates near DL for VOA's

Case No. 5839

Contractor ANALYTICAL RESOURCES

Contract No. 68-01-7236

Low Level

Medium Level

X

FRACTION	COMPOUND	CONC. SPIKE ADDED (ug/Kg)	SAMPLE RESULT	CONC. MS	% REC	CONC. MSD	% REC	RPD	RPD	QC LIMITS*	RECOVERY	
SAMPLE NO. <u>EH602</u>	1,1-Dichloroethene	50,000	Ø	47,840	96.7	66,100	132	-32.0*	22	50-172		
	Trichloroethene			44,320	88.6	58,810	118	-28.1*	24	62-137		
	Chlorobenzene		↓	63,200	126	86,610	163*	-25.4*	21	60-133		
	Toluene		↓	64,750	130	88,150	176*	-30.6*	21	50-130		
	Benzene		↓	16,460	12210	91.5	81,180	129	-26.5*	21	60-142	
SAMPLE NO. <u>EH602</u>	1,2,4-Trichlorobenzene	167,000	Ø	124,900	74.9	154,880	92.9	-21.4	23	38-107		
	Acenaphthene			18,170	168,480	90.2	172,180	92.4	-2.2	19	31-137	
	2,4 Dinitrotoluene			Ø	113,600	68.3	136,670	82.0	-18.3	47	28-89	
	Pyrene			111,370	290,233	107	230,950	71.7	22.7	38	35-142	
	N-Nitrosodi-n-Propylamine		Ø	157,980	94.8	169,550	101	-6.9	38	41-126		
SAMPLE NO. <u>EH602</u>	1,4-Dichlorobenzene		Ø	129,300	77.1	141,730	85.0	-9.2	27	28-104		
	Pentachlorophenol	333,000	Ø	257,083	77.1	277,130	83.1	-7.5	47	17-109		
	Phenol			248,370	74.5	254,820	76.4	-2.6	35	26-90		
	2-Chlorophenol			264,060	79.2	278,770	83.6	-5.4	50	25-102		
	4-Chloro-3-Methylphenol			224,800	67.4	252,130	75.6	-11.5	33	26-103		
SAMPLE NO. <u>EH602</u>	4-Nitrophenol		Ø	119,470	35.2	158,550	47.6	-29.8	50	11-114		
	Lindane	2000	Ø	2669	133*	2522	126	-5.7	50	46-127		
	Heptachlor		↓	2817	141*	2669	133*	-5.4	31	35-130		
	Aldrin		↓	3100	155*	2801	140*	-10.1	43	34-132		
	Dieldrin	5000		6270	125	6081	122	-3.1	38	31-134		
SAMPLE NO. <u>EH602</u>	Endrin		↓	6672	133	6930	139	3.8	45	42-139		
	4,4'-DDT		↓	6250	125	6315	126	Ø.9	50	23-134		

*ASTERISKED VALUES ARE OUTSIDE QC LIMITS.

RPD: VOA 5 out of 5: outside QC limits
 B/N Ø out of 4: outside QC limits
 ACID Ø out of 5: outside QC limits
 PEST Ø out of 6: outside QC limits

RECOVERY: VOA 2 out of 10: outside QC limits
 B/N 6 out of 12: outside QC limits
 ACID Ø out of 10: outside QC limits
 PEST 5 out of 12: outside QC limits

Comments: VOA's normalized to 0.5 gms sample as different anti used (MS = 0.543 gm MSD = 0.572 gm)
 ABN's normalized to 0.6 gms (dry wt) sample as different anti extracted (MS = 0.614 gm MSD = 0.584 gm)

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METHOD BLANK SUMMARY

Case No. 5839 Region 5 Contractor ANALYTICAL RESOURCES, INC. Contract No. 68-01-7236

Comments:

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JUN 1 9 1986

Organics Analysis Data Sheet

(Page 1)

Instrument Detection Limits

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Laboratory: ANALYTICAL RESOURCES INC.

Lab Sample ID No: N/A

Sample Matrix: N/A

Data Release Authorized By: James D. Rose

Case: 5839

QC Report No: 570

Contract No: 68-01-7236

Date Sample Received: N/A

Volatile Compounds

Concentration: N/A

Date Extracted/Prepared: 10/1/85

Date Analyzed: 10/1/85

Conc/DIL Factor: N/A pH: 7

Percent Moisture: N/A

CAS No		ng/ml	CAS No		ng/ml
74-87-3	Chloromethane	3.2	79-34-5	1,1,2,2-Tetrachloroethane	2.1
74-83-9	Bromomethane	4.2	78-87-5	1,2-Dichloropropane	1.6
75-01-4	Vinyl Chloride	3.7	10061-02-6	t-1,3-Dichloropropene	1.7
75-00-3	Chloroethane	4.4	79-01-6	Trichloroethene	1.4
75-09-2	Methylene Chloride	3.3	124-48-1	Dibromochloromethane	1.6
67-64-1	Acetone	11.6	79-00-5	1,1,2-Trichloroethane	1.6
75-15-0	Carbon Disulfide	2.0	71-43-2	Benzene	1.7
75-35-4	1,1,-Dichloroethene	4.5	10061-01-5	c-1,3-Dichloropropene	1.7
75-34-3	1,1-Dichloroethane	2.0	110-75-8	2-Chloroethylvinylether	2.6
156-60-5	t-1,2-Dichloroethene	2.7	75-25-2	Bromoform	1.9
67-66-3	Chloroform	2.5	591-78-6	2-Hexanone	1.9
107-06-2	1,2-Dichloroethane	2.3	108-10-1	4-Methyl-2-Pentanone	3.6
78-93-3	2-Butanone	6.3	127-18-4	Tetrachloroethene	1.2
71-55-6	1,1,1-Trichloroethane	1.6	108-88-3	Toluene	1.5
56-23-5	Carbon Tetrachloride	1.7	108-90-7	Chlorobenzene	1.3
108-05-4	Vinyl Acetate	5.8	100-41-4	Ethylbenzene	2.1
75-27-4	Bromodichloromethane	1.3	100-42-5	Styrene	2.7
				Total Xylenes	2.4

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit report the value B This flag is used when the analyte is found in the blank as well as a sample

U Indicates compound was analyzed for but not detected. Report the minimum detection limit

J Indicates an estimated value

Organics Analysis Data Sheet
(Page 2)

RECEIVED JUN 19 1986

Concentration: N/A

Date Extracted/Prepared: 10/7/85

Date Analyzed: 10/9/85

Conc/Dil Factor: N/A

CAS No		ng/uL	CAS No		ng/uL
62-75-9	N-Nitrosodimethylamine	3.7	83-32-9	Acenaphthene	7.5
108-95-2	Phenol	4.3	51-28-5	2,4-Dinitrophenol	3.3
62-53-3	Aniline	3.1	100-02-7	4-Nitrophenol	2.0
111-44-4	bis(2-Chloroethyl)ether	4.8	132-64-9	Dibenzofuran	3.5
95-57-8	2-Chlorophenol	2.5	121-14-2	2,4-Dinitrotoluene	2.2
541-73-1	1,3-Dichlorobenzene	2.9	606-20-2	2,6-Dinitrotoluene	2.6
106-46-7	1,4-Dichlorobenzene	3.4	64-66-2	Diethylphthalate	1.5
100-51-6	Benzyl Alcohol	4.0	7005-72-3	4-Chlorophenyl phenylether	6.3
95-50-1	1,2-Dichlorobenzene	3.8	86-73-7	Fluorene	2.9
95-48-7	2-Methylphenol	2.2	100-01-6	4-Nitroaniline	7.2
39638-32-9	bis(2-Chloroisopropyl)ether	2.5	534-52-1	4,6-Dinitro-2-methylphenol	1.1
106-44-5	4-Methylphenol	3.5	86-30-6	N-Nitrosodiphenylamine (1)	3.2
621-64-7	N-Nitroso-Diisopropylamine	4.8	101-55-3	4-Bromophenyl phenylether	3.2
67-72-1	Hexachloroethane	5.2	118-74-1	Hexachlorobenzene	4.4
98-95-3	Nitrobenzene	3.8	87-86-5	Pentachlorophenol	1.1
78-59-1	Isophorone	2.4	85-01-8	Phenanthrene	4.3
88-75-5	2-Nitrophenol	3.2	120-12-7	Anthracene	3.4
105-67-9	2,4-Dimethylphenol	4.6	84-74-2	Di-n-butylphthalate	4.1
65-85-0	Benzoic Acid	3.3	206-44-0	Fluoranthene	1.6
111-91-1	bis(2-Chloroethoxy)methane	3.6	92-87-5	Benzidine	18
120-83-2	2,4-Dichlorophenol	1.8	129-00-0	Pyrene	2.1
91-20-3	1,2,4-Trichlorobenzene	4.2	85-68-7	Butylbenzylphthalate	4.3
91-20-3	Naphthalene	3.0	91-94-1	3,3'-Dichlorobenzidine	2.0
106-47-8	4-Chloroaniline	1.8	56-55-3	Benzo(a)anthracene	0.5
87-68-3	Hexachlorobutadiene	4.3	117-81-7	Bis(2-Ethylhexyl)phthalate	3.5
59-50-7	4-Chloro-3-methylphenol	1.4	218-01-9	Chrysene	0.9
91-57-6	2-Methylnaphthalene	5.2	117-84-0	Di-n-Octylphthalate	1.0
77-47-4	Hexachlorocyclopentadiene	5.3	205-99-2	Benzo(b)fluoranthene	3.9
88-06-2	2,4,6-Trichlorophenol	2.0	207-08-9	Benzo(k)fluoranthene	3.3
95-95-4	2,4,5-Trichlorophenol	3.0	50-32-8	Benzo(a)pyrene	1.1
91-58-7	2-Chloronaphthalene	1.8	193-39-5	Indeno(123-cd)pyrene	2.1
88-74-4	2-Nitroaniline	1.2	53-70-3	Dibenzo(ah)anthracene	1.9
131-11-3	Dimethylphthalate	3.1	191-24-2	Benzo(ghi)perylene	3.4
208-96-8	Acenaphthylene	0.8			
99-09-2	3-Nitroaniline	6.6	(1) Cannot be separated from diphenylamine		

Laboratory: ANALYTICAL RESOURCES, INC
Case No: 5839

INSTRUMENT DETECTION LIMITS

Organics Analysis Data Sheet
(Page 3)

Concentration: N/A

RECEIVED JUN 19 1986

Date Extracted/Prepared: 9/19/85

Date Analyzed: 9/23/85-10/7/85

Conc/Dil Factor: N/A

CAS No		ng/uL
319-84-6	Alpha-BHC	.0023
319-85-7	Beta-BHC	.0030
319-86-8	Delta-BHC	.0032
58-89-9	Gamma-BHC (Lindane)	.0016
76-44-8	Heptachlor	.0032
309-00-2	Aldrin	.0023
1024-57-3	Heptachlor Epoxide	.0053
959-98-8	Endosulfan I	.0046
60-57-1	Dieldrin	.0054
72-55-9	4,4'-DDE	.0076
72-20-8	Endrin	.0082
33213-65-9	Endosulfan II	.0026
72-54-8	4,4'-DDD	.0049
7421-93-4	Endrin Aldehyde	.0108
1031-07-8	Endosulfan Sulfate	.0101
50-29-3	4,4'-DDT	.0106
72-43-5	Methoxychlor	.0349
53494-70-5	Endrin Ketone	.0105
57-74-9	Chlordane	.0347
8001-35-2	Taxaphene	.0295
12674-11-2	Aroclor 1016	.0067
11104-28-2	Aroclor 1221	.0101
11141-16-5	Aroclor 1232	.0379
53469-21-9	Aroclor 1242	.0524
12672-29-6	Aroclor 1248	.0511
11097-69-1	Aroclor 1254	.0846
11096-82-5	Aroclor 1260	.0466

V(i) = Volume of extract injected (uL)

V(s) = Volume of water extracted (mL)

W(s) = Weight of sample extract (g)

V(t) = Volume of total extract (uL)

V(s) N/A

or W(s) N/A

V(t) N/A

V(i) 3.0

86 FL05 \$87

**Organics Analysis Data Sheet
(Page 1)**

Laboratory Name **ANALYTICAL RESOURCES, INC.** Case No 5839
 Lab Sample ID No 510B QC Report No. 510
 Sample Matrix: Soils Contract No. 68-01-7236
 Data Release Authorized By: John D. Allen Date Sample Received: 16 April 1986

Volatile Compounds

Concentration: Low Medium (Circle One)
 Date Extracted / Prepared 4/25/86
 Date Analyzed 4/25/86
 Conc/Dil Factor: 1:1000 pH 6.44
 Percent Moisture. (Not Decanted) 55.3

Note 601-R1
EE for data
now

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CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	140,000L
74-83-9	Bromomethane	140,000L
75-01-4	Vinyl Chloride	140,000L
75-00-3	Chloroethane	140,000L
75-09-2	Methylene Chloride	69,000L
67-64-1	Acetone	140,000L
75-15-0	Carbon Disulfide	69,000L
75-35-4	1, 1-Dichloroethene	69,000L
75-34-3	1, 1-Dichloroethane	69,000L
156-60-5	Trans-1, 2-Dichloroethene	69,000L
67-66-3	Chloroform	69,000L
107-06-2	1, 2-Dichloroethane	69,000L
78-93-3	2-Butanone	500,000 B
71-55-6	1, 1, 1-Trichloroethane	69,000L
56-23-5	Carbon Tetrachloride	69,000L
108-05-4	Vinyl Acetate	140,000L
75-27-4	Bromodichloromethane	69,000L

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	69,000L
10061-02-6	Trans-1, 3-Dichloropropene	69,000L
79-01-6	Trichloroethene	69,000L
124-48-1	Dibromochloromethane	69,000L
79-00-5	1, 1, 2-Trichloroethane	69,000L
71-43-2	Benzene	410,000
10061-01-5	cis-1, 3-Dichloropropene	69,000L
110-75-8	2-Chloroethylvinylether	140,000L
75-25-2	Bromoform	69,000L
108-10-1	4-Methyl-2-Pentanone	140,000L
591-78-6	2-Hexanone	140,000L
127-18-4	Tetrachloroethene	69,000L
79-34-5	1, 1, 2-Tetrachloroethane	69,000L
108-88-3	Toluene	5,400,000 K
108-90-7	Chlorobenzene	69,000L
100-41-4	Ethylbenzene	3,800,000 K
100-42-5	Styrene	69,000L
	Total Xylenes	19,000,000 K

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used

Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit

- | | | | |
|-------|--|-------|--|
| Value | If the result is a value greater than or equal to the detection limit report the value | C | This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides $\geq 10 \text{ ng}/\text{ul}$ in the final extract should be confirmed by GC/MS |
| U | Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample | B | This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action |
| J | Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 $\mu\text{g}/\text{l}$ and a concentration of 3 $\mu\text{g}/\text{l}$ is calculated, report as 3J | Other | Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report |

Organics Analysis Data Sheet
(Page 2)

86 FL05 \$87

Semivolatile Compounds

Concentration: Low Medium (Circle One)
 Extracted Prepared 4/17/86
 Analyzed 5/5/86
 c/Dil Factor: 1:5
 Percent Moisture (Decanted) 55.3

GPC Cleanup Yes No
 Separatory Funnel Extraction Yes
 Continuous Liquid - Liquid Extraction Yes

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IS Number		ug/1 or ug/Kg (Circle One)
48-95-2	Phenol	220,000u
11-44-4	bis(2-Chloroethyl)Ether	220,000u
5-57-8	2-Chlorophenol	220,000u
41-73-1	1,3-Dichlorobenzene	220,000u
06-46-7	1,4-Dichlorobenzene	220,000u
00-51-6	Benzyl Alcohol	220,000u
5-50-1	1,2-Dichlorobenzene	220,000u
5-48-7	2-Methylphenol	220,000u
9638-32-9	bis(2-chloroisopropyl)Ether	220,000u
106-44-5	4-Methylphenol	220,000u
521-64-7	N-Nitroso-Di-n-Propylamine	220,000u
67-72-1	Hexachloroethane	220,000u
98-95-3	Nitrobenzene	220,000u
78-59-1	Isophorone	220,000u
88-75-5	2-Nitrophenol	220,000u
105-67-9	2,4-Dimethylphenol	220,000u
65-85-0	Benzoic Acid	1,100,000u
111-91-1	bis(2-Chloroethoxy)Methane	220,000u
120-83-2	2,4-Dichlorophenol	220,000u
120-82-1	1,2,4-Trichlorobenzene	220,000u
91-20-3	Naphthalene	700,000
106-47-8	4-Chloroaniline	220,000u
87-68-3	Hexachlorobutadiene	220,000u
59-50-7	4-Chloro-3-Methylphenol	220,000u
91-57-6	2-Methylnaphthalene	1,800,000
77-47-4	Hexachlorocyclopentadiene	220,000u
88-06-2	2,4,6-Trichlorophenol	220,000u
95-95-4	2,4,5-Trichlorophenol	1,100,000u
91-58-7	2-Chloronaphthalene	220,000u
88-74-4	2-Nitroaniline	1,100,000u
131-11-3	Dimethyl Phthalate	220,000u
208-96-8	Acenaphthylene	220,000u
99-09-2	3-Nitroaniline	1,100,000u

CAS Number		ug/1 or ug/Kg (Circle One)
83-32-9	Acenaphthene	160,000J
51-28-5	2,4-Dinitrophenol	1,100,000u
100-02-7	4-Nitrophenol	1,100,000u
132-64-9	Dibenzofuran	190,000J
121-14-2	2,4-Dinitrotoluene	220,000u
606-20-2	2,6-Dinitrotoluene	220,000u
84-66-2	Diethylphthalate	220,000u
7005-72-3	4-Chlorophenyl-phenylether	220,000u
86-73-7	Fluorene	450,000
100-01-6	4-Nitroaniline	1,100,000u
534-52-1	4,6-Dinitro-2-Methylphenol	1,100,000u
86-30-6	N-Nitrosodiphenylamine (1)	220,000u
101-55-3	4-Bromophenyl-phenylether	220,000u
118-74-1	Hexachlorobenzene	220,000u
87-86-5	Pentachlorophenol	1,100,000u
85-01-8	Phenanthrene	1,700,000
120-12-7	Anthracene	220,000u
84-74-2	Di-n-Butylphthalate	220,000u
206-44-0	Fluoranthene	58,000J
129-00-0	Pyrene	130,000J
85-68-7	Butylbenzylphthalate	220,000u
91-94-1	3,3'-Dichlorobenzidine	450,000u
56-55-3	Benzo(a)Anthracene	220,000u
117-81-7	bis(2-Ethylhexyl)Phthalate	220,000u
218-01-9	Chrysene	140,000J
117-84-0	Di-n-Octyl Phthalate	220,000u
205-99-2	Benzo(b)Fluoranthene	220,000u
207-08-9	Benzo(k)Fluoranthene	220,000u
50-32-8	Benzo(a)Pyrene	220,000u
193-39-5	Indeno(1,2,3-cd)Pyrene	220,000u
53-70-3	Dibenzo(1,4)Anthracene	220,000u
191-24-2	Benzo(g,h,i)Perylene	220,000u

(1)-Cannot be separated from diphenylamine

Organics Analysis Data Sheet
(Page 3)

86FL05 \$ 87

Pesticide/PCBs

Concentration Low Medium (Circle One)
 Date Extracted/Prepared 4/17/86
 Date Analyzed 4/30/86
 Conc/Dil Factor 1:40
 Percent Moisture (decanted) 55.3

GPC Cleanup Yes NoSeparatory Funnel Extraction YesContinuous Liquid - Liquid Extraction Yes

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CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha BHC	12,000u
319-85-7	Beta-BHC	12,000u
319-86-8	Delta-BHC	12,000u
58-89-9	Gamma-BHC (Lindane)	12,000u
76-44-8	Heptachlor	12,000u
309-00-2	Aldrin	12,000u
1024-57-3	Heptachlor Epoxide	12,000u
959-98-8	Endosulfan I	12,000u
60-57-1	Dieldrin	24,000u
72-55-9	4,4'-DDE	24,000u
72-20-8	Endrin	24,000u
33213-65-9	Endosulfan II	24,000u
72-54-8	4,4'-DDD	24,000u
1031-07-8	Endosulfan Sulfate	24,000u
50-29-3	4,4'-DDT	24,000u
72-43-5	Methoxychlor	120,000u
53494-70-5	Endrin Ketone	24,000u
57-74-9	Chlordane	120,000u
8001-35-2	Toxaphene	240,000u
12674-11-2	Aroclor-1016	120,000u
11104-28-2	Aroclor-1221	120,000u
11141-16-5	Aroclor-1232	120,000u
53469-21-9	Aroclor-1242	120,000u
12672-29-6	Aroclor-1248	120,000u
11097-69-1	Aroclor-1254	240,000u
11096-82-5	Aroclor-1260	240,000u

 V_i = Volume of extract injected (ul) V_s = Volume of water extracted (ml) W_s = Weight of sample extracted (g) V_t = Volume of total extract (ul)

v_s NA or w_s 0.407 (dug) v_i 10.000 v_t 2.0

Organics Analysis Data Sheet
(Page 4)

86FL05 \$87

Tentatively Identified Compounds

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CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. 108-87-2	Cyclohexane, methyl-	VOA	546	2,700,000 J
2. -	UNKNOWN bp 56 (Hydrocarbon)		573	4,700,000 J
3. -	UNKNOWN bp 43 (Hydrocarbon)		612	3,200,000 J
4. -	UNKNOWN bp 43 (Hydrocarbon)		627	2,400,000 J
5. 1186-53-4	Pentane, 2,2,3,4-tetramethyl		651	13,000,000 J
6. -	UNKNOWN bp 43 (Hydrocarbon)		697	4,000,000 J
7. -	UNKNOWN bp 43 (Hydrocarbon)		732	1,800,000 J
8. -	UNKNOWN bp 70		752	1,100,000 J
9. -	UNKNOWN bp 43 (Hydrocarbon)		775	2,100,000 J
10. 921-47-1	Hexane, 2,3,4-trimethyl-		825	3,800,000 J
11. 17301-32-5	Undecane, 4,7-dimethyl-	BAN	799	3,000,000 J
12. -	UNKNOWN bp 57 (Hydrocarbon)		916	5,900,000 J
13. -	UNKNOWN bp 142 (Methylnaphthalene + HC)		934	2,200,000 J
14. 17312-83-3	Undecane, 5,7-dimethyl-		1027	7,500,000 J
15. 571-61-9	Naphthalene, 1,5-dimethyl-		1037	4,600,000 J
16. 581-40-8	Naphthalene, 2,3-dimethyl-		1054	6,700,000 J
17. 573-98-8	Naphthalene, 1,2-dimethyl-		1074	4,100,000 J
18. -	UNKNOWN bp 57 (Dimethylnaphthalene + HC)		1089	4,200,000 J
19. -	UNKNOWN bp 57 (Hydrocarbon)		1129	7,800,000 J
20. -	UNKNOWN bp 83		1180	4,100,000 J
21. -	UNKNOWN bp 57 (Hydrocarbon)		1226	8,400,000 J
22. 62108-21-8	Decane, 6-ethyl-2-methyl-		1270	2,200,000 J
23. -	UNKNOWN bp 43 (Hydrocarbon)		1318	2,500,000 J
24. 1921-70-6	Pentadecane, 2,6,10,14-tetramethyl-		1323	1,700,000 J
25. 629-59-4	Tetradecane		1404	2,000,000 J
26. 74645-98-0	Dodecane, 2,7,10-trimethyl-		1411	890,000 J
27. 31081-18-2	Nonane, 3-methyl-5-propyl-		1486	1,300,000 J
28. 629-59-4	Tetradecane		1564	1,900,000 J
29. 31081-18-2	Nonane, 3-methyl-5-propyl-		1638	1,100,000 J
30. 629-97-0	Docosane		1708	1,100,000 J

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: **ANALYTICAL RESOURCES, INC.** Case No. 5839
 Lab Sample ID No. 510BR QC Report No. 510
 Sample Matrix: Soils Contract No. 68-01-7236
 Data Release Authorized By: Luan D. Ross Date Sample Received: 16 April 1986

Volatile Compounds

Concentration: Low Medium (Circle One)
 Date Extracted/Prepared: 4/25/86
 Date Analyzed: 4/25/86
 Conc/Dil Factor: 1:5000 pH 6.44
 Percent Moisture: (Not Decanted) 55.3

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Val true
Data true

CAS Number		ug/l or mg/Kg (Circle One)
74-87-3	Chloromethane	690,000u
74-83-9	Bromomethane	690,000u
75-01-4	Vinyl Chloride	690,000u
75-00-3	Chloroethane	690,000u
75-09-2	Methylene Chloride	340,000u
67-64-1	Acetone	690,000u
75-15-0	Carbon Disulfide	340,000u
75-35-4	1, 1-Dichloroethene	340,000u
75-34-3	1, 1-Dichloroethane	340,000u
156-60-5	Trans-1, 2-Dichloroethene	340,000u
67-66-3	Chloroform	340,000u
107-06-2	1, 2-Dichloroethane	340,000u
78-93-3	2-Butanone	1,700,000B
71-55-6	1, 1, 1-Trichloroethane	340,000u
56-23-5	Carbon Tetrachloride	340,000u
108-05-4	Vinyl Acetate	690,000u
75-27-4	Bromodichloromethane	340,000u

CAS Number		ug/l or mg/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	340,000u
10061-02-6	Trans-1, 3-Dichloropropene	340,000u
79-01-6	Trichloroethene	340,000u
124-48-1	Dibromochloromethane	340,000u
79-00-5	1, 1, 2-Trichloroethane	340,000u
71-43-2	Benzene	390,000
10061-01-5	cis-1, 3-Dichloropropene	340,000u
110-75-8	2-Chloroethylvinylether	690,000u
75-25-2	Bromoform	340,000u
108-10-1	4-Methyl-2-Pentanone	690,000u
591-78-6	2-Hexanone	690,000u
127-18-4	Tetrachloroethene	340,000u
79-34-5	1, 1, 2, 2-Tetrachloroethane	340,000u
108-88-3	Toluene	5,700,000
108-90-7	Chlorobenzene	340,000u
100-41-4	Ethylbenzene	3,000,000
100-42-5	Styrene	340,000u
	Total Xylenes	18,000,000

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used:

Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

- | | | | |
|-------|--|-------|---|
| Value | If the result is a value greater than or equal to the detection limit report the value | C | This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥ 10 ng/uL in the final extract should be confirmed by GC/MS |
| U | Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10uL) based on necessary concentration/dilution factor. (This is not necessarily the instrument detection limit.) The footnote should read: U Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample | B | This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action |
| J | Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J | Other | Other specific flags and footnotes may be required to properly define the results. If used they must be fully described and such description attached to the data summary report |

Organics Analysis Data Sheet (Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)
 Date Extracted Prepared NA
 Date Analyzed: NA
 Conc/Dil Factor: NA
 Percent Moisture (Decanted) NA

- GPC Cleanup Yes No
 Separatory Funnel Extraction Yes
 Continuous Liquid - Liquid Extraction Yes

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CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	
111-44-4	bis(-2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1, 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylpheno!	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2, 4-Dimethylphenol	
65-85-0	Benzoic Acid	
111-91-1	bis(-2-Chlorothoxy)Methane	
120-83-2	2, 4-Dichlorophenol	
120-82-1	1, 2, 4-Trichlorobenzene	
91-20-3	Naphthalene	
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	
77-47-4	Hexachlorocyclopentadiene	
88-08-2	2, 4, 6-Trichlorophenol	
95-95-4	2, 4, 5-Trichlorophenol	
91-58-7	2-Chloronaphthalene	
88-74-4	2-Nitroaniline	
131-71-3	Dimethyl Phthalate	
208-96-8	Acenaphthylene	
98-09-2	3-Nitroaniline	

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	
51-28-5	2, 4-Dinitrophenol	
100-02-7	4-Nitrophenol	
132-64-9	Dibenzofuran	
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	
534-52-1	4, 6-Dinitro-2-Methylphenol	
86-30-6	N-Nitrosodiphenylamine (1)	
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	
85-01-8	Phenanthrene	
120-12-7	Anthracene	
84-74-2	Di-n-Butylphthalate	
206-44-0	Fluoranthene	
129-00-0	Pyrene	
85-68-7	Butylbenzylphthalate	
91-94-1	3, 3'-Dichlorobenzidine	
56-55-3	Benzo(a)Anthracene	
117-81-7	bis(2-Ethylhexyl)Phthalate	
218-01-9	Chrysene	
117-84-0	Di-n-Octyl Phthalate	
205-99-2	Benzo(b)Fluoranthene	
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	
53-70-3	Dibenz(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	

(1)-Cannot be separated from diphenylamine

Case No 5839

EH601-RI

Organics Analysis Data Sheet

(Page 3)

Pesticide/PCBs

Concentration Low Medium (Circle One)
 Date Extracted/Prepared NA
 Date Analyzed NA
 Conc/Dil Factor NA
 Percent Moisture (decanted) NA

GPC Cleanup Yes NoSeparatory Funnel Extraction YesContinuous Liquid - Liquid Extraction Yes

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CAS Number	ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC
319-85-7	Beta-BHC
319-86-8	Delta-BHC
58-89-9	Gamma-BHC (Lindane)
76-44-8	Heptachlor
309-00-2	Aldrin
1024-57-3	Heptachlor Epoxide
959-98-8	Endosulfan I
60-57-1	Dieldrin
72-55-9	4,4'-DDE
72-20-8	Endrin
33213-65-9	Endosulfan II
72-54-8	4,4'-DDD
1031-07-8	Endosulfan Sulfate
50-29-3	4,4'-DDT
72-43-5	Methoxychlor
53494-70-5	Endrin Ketone
57-74-9	Chlordane
8001-35-2	Toxaphene
12674-11-2	Aroclor-1016
11104-28-2	Aroclor-1221
11141-16-5	Aroclor-1232
53469-21-9	Aroclor-1242
12672-29-6	Aroclor-1248
11097-69-1	Aroclor-1254
71096-82-5	Aroclor-1260

 V_i = Volume of extract injected (ul) V_s = Volume of water extracted (ml) W_s = Weight of sample extracted (g) V_t = Volume of total extract (ul) v_s NAor w_s NA v_i NA v_t NA

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

RECEIVED JUN 19 1986

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. -	UNKNOWN bp 43 (Hydrocarbon)	VOA	466	2,300,000 J
2. -	UNKNOWN bp 57 (Hydrocarbon)		516	1,500,000 J
3. 108-06-7	Pentane, 2,4-dimethyl-		559	1,00,000 J
4. -	UNKNOWN bp 56 (Hydrocarbon)		573	4,100,000 J
5. -	UNKNOWN bp 43		611	2,500,000 J
6. -	UNKNOWN bp 43		626	1,800,000 J
7. -	UNKNOWN bp 57 (Hydrocarbon)		650	15,000,000 J
8. -	UNKNOWN bp 43 (Hydrocarbon)		697	1,600,000 J
9. -	UNKNOWN bp 43 (Hydrocarbon)		775	1,500,000 J
10. 921-47-1	Heptane, 2,3,4-trimethyl		825	2,200,000 J
11.				
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Organics Analysis Data Sheet
(Page 1)

ENHOUZ
86FL05\$88

Laboratory Name **ANALYTICAL RESOURCES, INC.** Case No 5839
 Lab Sample ID No 510A QC Report No 510
 Sample Matrix Soils Contract No 68-01-7236
 Data Release Authorized By: Susan D. Olson Date Sample Received 16 April 1986

Volatile Compounds

Concentration: Low Medium (Circle One)
 Date Extracted/Prepared: 4/25/86
 Date Analyzed: 4/25/86
 Conc/Dil Factor: 1:1000 pH 6.75
 Percent Moisture (Not Decanted) 41.0

RECEIVED JUN 19 1986

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	86,000 <u>U</u>
74-83-9	Bromomethane	86,000 <u>U</u>
75-01-4	Vinyl Chloride	86,000 <u>U</u>
75-00-3	Chloroethane	86,000 <u>U</u>
75-09-2	Methylene Chloride	43,000 <u>U</u>
67-64-1	Acetone	86,000 <u>U</u>
75-15-0	Carbon Disulfide	43,000 <u>U</u>
75-35-4	1, 1-Dichloroethene	43,000 <u>U</u>
75-34-3	1, 1-Dichloroethane	43,000 <u>U</u>
156-60-5	Trans-1, 2-Dichloroethene	43,000 <u>U</u>
67-66-3	Chloroform	43,000 <u>U</u>
107-06-2	1, 2-Dichloroethane	43,000 <u>U</u>
78-93-3	2-Butanone	340,000 <u>B</u>
71-55-6	1, 1, 1-Trichloroethane	43,000 <u>U</u>
56-23-5	Carbon Tetrachloride	43,000 <u>U</u>
108-05-4	Vinyl Acetate	86,000 <u>U</u>
75-27-4	Bromodichloromethane	43,000 <u>U</u>

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	43,000 <u>U</u>
10061-02-6	Trans-1, 3-Dichloropropene	43,000 <u>U</u>
79-01-6	Trichloroethene	43,000 <u>U</u>
124-48-1	Dibromochloromethane	43,000 <u>U</u>
79-00-5	1, 1, 2-Trichloroethane	43,000 <u>U</u>
71-43-2	Benzene	14,000 <u>J</u>
10061-01-5	cis-1, 3-Dichloropropene	43,000 <u>U</u>
110-75-8	2-Chloroethylvinylether	86,000 <u>U</u>
75-25-2	Bromoform	43,000 <u>U</u>
108-10-1	4-Methyl-2-Pentanone	86,000 <u>U</u>
591-78-6	2-Hexanone	86,000 <u>U</u>
127-18-4	Tetrachloroethene	43,000 <u>U</u>
79-34-5	1, 1, 2, 2-Tetrachloroethane	43,000 <u>U</u>
108-88-3	Toluene	43,000 <u>U</u>
108-90-7	Chlorobenzene	43,000 <u>U</u>
100-41-4	Ethylbenzene	110,000
100-42-5	Styrene	43,000 <u>U</u>
	Total Xylenes	1900,000

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used
 Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit

- | | | | |
|-------|--|-------|--|
| Value | If the result is a value greater than or equal to the detection limit, report the value | C | This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides $\geq 10\text{ }\mu\text{g/l}$ in the final extract should be confirmed by GC/MS |
| U | Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample | B | This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action |
| J | Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 $\mu\text{g/l}$ and a concentration of 3 $\mu\text{g/l}$ is calculated, report as 3J | Other | Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report |

Organics Analysis Data Sheet
(Page 2)

86FL05\$88

Semivolatile Compounds

Concentration: Low Medium (Circle One) _____
 Date Extracted Prepared _____ 4/17/86
 Date Analyzed _____ 5/5/86
 Conc/Dil Factor: _____ 1:5
 Percent Moisture (Decanted) _____ 41.0

GPC Cleanup Yes No RECEIVED JUN 19 1986Separatory Funnel Extraction YesContinuous Liquid - Liquid Extraction Yes

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	170,000u
111-44-4	bis(-2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1, 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2, 4-Dimethylphenol	
65-85-0	Benzoic Acid	810,000u
111-91-1	bis(-2-Chloroethoxy)Methane	
120-83-2	2, 4-Dichlorophenol	
120-82-1	1, 2, 4-Trichlorobenzene	
91-20-3	Naphthalene	85,000 J
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	290,000
77-47-4	Hexachlorocyclopentadiene	
88-06-2	2, 4, 6-Trichlorophenol	
95-95-4	2, 4, 5-Trichlorophenol	810,000u
91-58-7	2-Chloronaphthalene	
88-74-4	2-Nitroaniline	810,000u
131-11-3	Dimethyl Phthalate	
208-96-8	Acenaphthylene	
99-09-2	3-Nitroaniline	810,000u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	18,000 J
51-28-5	2, 4-Dinitrophenol	810,000u
100-02-7	4-Nitrophenol	810,000u
132-84-9	Dibenzofuran	23,000 J
121-14-2	2, 4-Dinitrotoluene	170,000u
606-20-2	2, 6-Dinitrotoluene	170,000u
84-66-2	Diethylphthalate	170,000u
7005-72-3	4-Chlorophenyl-phenylether	170,000u
86-73-7	Fluorene	60,000 J
100-01-8	4-Nitroaniline	810,000u
534-52-1	4, 6-Dinitro-2-Methylphenol	810,000u
86-30-6	N-Nitrosodiphenylamine (1)	170,000u
101-55-3	4-Bromophenyl-phenylether	170,000u
118-74-1	Hexachlorobenzene	170,000u
87-86-5	Pentachlorophenol	810,000u
85-01-8	Phenanthrene	200,000
120-12-7	Anthracene	170,000u
84-74-2	Di-n-Butylphthalate	170,000u
206-44-0	Fluoranthene	35,000 J
129-00-0	Pyrene	112,000 J
85-68-7	Butylbenzylphthalate	170,000u
91-94-1	3, 3'-Dichlorobenzidine	330,000u
56-55-3	Benzo(a)Anthracene	170,000u
117-81-7	bis(2-Ethylhexyl)Phthalate	170,000u
218-01-9	Chrysene	98,000 J
117-84-0	Di-n-Octyl Phthalate	170,000u
205-99-2	Benzo(b)Fluoranthene	170,000u
207-08-9	Benzo(k)Fluoranthene	170,000u
50-32-8	Benzo(a)Pyrene	170,000u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	170,000u
53-70-3	Dibenz(a, h)Anthracene	170,000u
191-24-2	Benzog, h, iPerylene	170,000u

(1)-Cannot be separated from diphenylamine

**Organics Analysis Data Sheet
(Page 3)**

86FL05\$88

RECEIVED JUN 19 1986

Concentration Low Medium (Circle One)

Date Extracted/Prepared 4/19/86

Date Analyzed 4/30/86

Conc/Dil Factor 1:4

Percent Moisture (decanted) 41.0

GPC Cleanup Yes NoSeparatory Funnel Extraction YesContinuous Liquid - Liquid Extraction Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	850u
319-85-7	Beta-BHC	850u
319-86-8	Delta-BHC	850u
58-89-9	Gamma-BHC (Lindane)	853u
76-44-8	Heptachlor	85.0u
309-00-2	Aldrin	853u
1024-57-3	Heptachlor Epoxide	85X1
959-98-8	Endosulfan I	853u
60-57-1	Dieldrin	1703u
72-55-9	4,4'-DDE	1700u
72-20-8	Endrin	1750u
33213-65-9	Endosulfan II	1750u
72-54-8	4,4'-DDD	1750u
1031-07-8	Endosulfan Sulfate	1750u
50-29-3	4,4'-DDT	1750u
72-43-5	Methoxychlor	8530u
53494-70-5	Endrin Ketone	1750u
57-74-9	Chlordane	8530u
8001-35-2	Toxaphene	17,500u
12674-11-2	Aroclor-1016	8500u
11104-28-2	Aroclor-1221	8500u
11141-16-5	Aroclor-1232	8500u
53469-21-9	Aroclor-1242	8500u
12672-29-6	Aroclor-1248	8500u
11097-69-1	Aroclor-1254	17,500u
11096-82-5	Aroclor-1260	17,500u

 V_i = Volume of extract injected (ul) V_s = Volume of water extracted (ml) W_s = Weight of sample extracted (g) V_t = Volume of total extract (ul)

V_s NA or W_s 0.566 (1u)
 V_i 10.002 V_t 2.0

Organics Analysis Data Sheet
(Page 4)

86FL05 \$88

Tentatively Identified Compounds

RECEIVED JUN 19 1986

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. -	UNKNOWN bp 56 (Hydrocarbon)	V0A	572	800,000 J
2. -	UNKNOWN bp 43		611	430,000 J
3. 594-82-1	Butane, 2,2,3,3-tetramethyl		649	3,800,000 J
4. 20278-87-9	Heptane, 3,3,4-trimethyl		671	1,700,000 J
5. -	UNKNOWN bp 43 (Hydrocarbon)		697	430,000 J
6. 584-94-1	Hexane, 2,3-dimethyl		717	250,000 J
7. 15869-93-9	Octane, 3,5-dimethyl		732	340,000 J
8. -	UNKNOWN bp 43 (Hydrocarbon)		759	410,000 J
9. -	UNKNOWN bp 43 (Hydrocarbon)		775	300,000 J
10. 921-47-1	Hexane, 2,3,4-trimethyl	↓	825	900,000 J
11. -	UNKNOWN bp 57 (Hydrocarbon)	BAN	798	710,000 J
12. 17301-23-4	Undecane, 2,6-dimethyl-		814	630,000 J
13. 62016-34-6	Octane, 2,3,7-trimethyl-		883	520,000 J
14. -	UNKNOWN bp 57 (Hydrocarbon)		914	1,200,000 J
15. -	UNKNOWN bp 142 (Methyl naphthalene + HC)		932	560,000 J
16. 1560-96-9	Tridecane, 2-methyl-		983	470,000 J
17. 74445-98-0	Dodecane, 2,7,10-trimethyl-		998	1,000,000 J
18. -	UNKNOWN bp 57 (Hydrocarbon)		1022	1,200,000 J
19. 581-40-8	Naphthalene, 2,3-dimethyl-		1034	830,000 J
20. 581-40-8	Naphthalene, 2,3-dimethyl-		1051	1,300,000 J
21. -	UNKNOWN bp 83		1075	1,200,000 J
22. 17301-30-3	Undecane, 3,8-dimethyl-		1088	1,600,000 J
23. 62016-37-9	Octane, 2,4,6-trimethyl-		1124	930,000 J
24. 2131-41-1	Naphthalene, 1,4,5-trimethyl-		1137	780,000 J
25. -	UNKNOWN bp 57		1178	1,100,000 J
26. 31081-18-2	Nonane, 3-methyl-5-propyl-		1189	600,000 J
27. -	UNKNOWN bp 57 (Hydrocarbon)		1220	590,000 J
28. 17312-82-2	Undecane, 4,6-dimethyl-		1267	970,000 J
29. 1921-70-6	Pentadecane, 2,6,10,14-tetramethyl-	↓	1318	1,100,000 J
30. 74445-98-0	Dodecane, 2,7,10-trimethyl-		1408	630,000 J

**Organics Analysis Data Sheet
(Page 1)**

86FL05 \$89

Laboratory Name. **ANALYTICAL RESOURCES, INC.** Case No. 5839
 Lab Sample ID No. 501C QC Report No. 510
 Sample Matrix. **Soils** Contract No. 68-01-7236
 Data Release Authorized By: Sean O'Rao Date Sample Received: 16 April 1986

Volatile Compounds

Concentration: Low **Medium** (Circle One)
 Date Extracted/Prepared 4/25/86
 Date Analyzed. 4/25/86
 Conc/Dil Factor: 1:2000 pH 5.51
 Percent Moisture: (Not Decanted) 56.6

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CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	270,000 <u>A</u>
74-83-9	Bromomethane	270,000 <u>K</u>
75-01-4	Vinyl Chloride	270,000 <u>K</u>
75-00-3	Chloroethane	270,000 <u>K</u>
75-09-2	Methylene Chloride	140,000 <u>A</u>
67-64-1	Acetone	270,000 <u>K</u>
75-15-0	Carbon Disulfide	140,000 <u>A</u>
75-35-4	1, 1-Dichloroethene	140,000 <u>A</u>
75-34-3	1, 1-Dichloroethane	140,000 <u>A</u>
156-60-5	Trans-1, 2-Dichloroethene	140,000 <u>K</u>
67-66-3	Chloroform	140,000 <u>K</u>
107-06-2	1, 2-Dichloroethane	140,000 <u>K</u>
78-93-3	2-Butanone	880,000 <u>B</u>
71-55-6	1, 1, 1-Trichloroethane	140,000 <u>A</u>
56-23-5	Carbon Tetrachloride	140,000 <u>A</u>
108-05-4	Vinyl Acetate	270,000 <u>K</u>
75-27-4	Bromodichloromethane	140,000 <u>K</u>

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	140,000 <u>K</u>
10061-02-6	Trans-1, 3-Dichloropropene	140,000 <u>K</u>
79-01-6	Trichloroethene	140,000 <u>K</u>
124-48-1	Dibromochloromethane	140,000 <u>K</u>
79-00-5	1, 1, 2-Trichloroethane	140,000 <u>K</u>
71-43-2	Benzene	100,000 <u>J</u>
10061-01-5	cis-1, 3-Dichloropropene	140,000 <u>K</u>
110-75-8	2-Chloroethylvinylether	270,000 <u>K</u>
75-25-2	Bromoform	140,000 <u>K</u>
108-10-1	4-Methyl-2-Pentanone	270,000 <u>K</u>
591-78-6	2-Hexanone	270,000 <u>K</u>
127-18-4	Tetrachloroethene	140,000 <u>K</u>
79-34-5	1, 1, 2, 2-Tetrachloroethane	140,000 <u>K</u>
108-88-3	Toluene	1,100,000
108-90-7	Chlorobenzene	140,000 <u>K</u>
100-41-4	Ethylbenzene	980,000
100-42-5	Styrene	140,000 <u>K</u>
	Total Xylenes	14,000,000

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used

Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit

- | | | | |
|-------|--|-------|---|
| Value | If the result is a value greater than or equal to the detection limit report the value | C | This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥ 10 ng/ μ l in the final extract should be confirmed by GC/MS |
| U | Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample | B | This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action |
| J | Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 μ g/l and a concentration of 3 μ g/l is calculated, report as 3J | Other | Other specific flags and footnotes may be required to properly define the results. If used they must be fully described and such description attached to the data summary report |

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Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration Low Medium (Circle One)

Date Extracted / Prepared 4/17/86

Date Analyzed 5/5/86

Conc/Dil Factor 1:5

Percent Moisture (Decanted) 56.6

GPC Cleanup Yes NoSeparatory Funnel Extraction YesContinuous Liquid - Liquid Extraction Yes

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CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	230,000u
111-44-4	bis(2-Chloroethyl)Ether	230,000u
95-57-8	2-Chlorophenol	230,000u
541-73-1	1,3-Dichlorobenzene	230,000u
106-46-7	1,4-Dichlorobenzene	230,000u
100-51-6	Benzyl Alcohol	230,000u
95-50-1	1,2-Dichlorobenzene	230,000u
95-48-7	2-Methylphenol	230,000u
39638-32-9	bis(2-chloroisopropyl)Ether	230,000u
106-44-5	4-Methylphenol	230,000u
621-64-7	N-Nitro-Di-n-Propylamine	230,000u
67-72-1	Hexachloroethane	230,000u
98-95-3	Nitrobenzene	230,000u
78-59-1	Isophorone	230,000u
88-75-5	2-Nitrophenol	230,000u
105-67-9	2,4-Dimethylphenol	230,000u
65-85-0	Benzoic Acid	1,100,000u
111-91-1	bis(2-Chloroethoxy)Methane	230,000u
120-83-2	2,4-Dichlorophenol	230,000u
120-82-1	1,2,4-Trichlorobenzene	230,000u
91-20-3	Naphthalene	1,300,000
106-47-8	4-Chloroaniline	230,000u
87-68-3	Hexachlorobutadiene	230,000u
59-50-7	4-Chloro-3-Methylphenol	230,000u
91-57-6	2-Methylnaphthalene	1,600,000
77-47-4	Hexachlorocyclopentadiene	230,000u
88-06-2	2,4,6-Trichlorophenol	230,000u
95-95-4	2,4,5-Trichlorophenol	1,100,000u
91-58-7	2-Chloronaphthalene	230,000u
88-74-4	2-Nitroaniline	1,100,000u
131-11-3	Dimethyl Phthalate	230,000u
208-96-8	Acenaphthylene	230,000u
99-09-2	3-Nitroaniline	1,100,000

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	230,000u
51-28-5	2,4-Dinitrophenol	1,100,000u
100-02-7	4-Nitrophenol	1,100,000u
132-64-9	Dibenzofuran	220,000J
121-14-2	2,4-Dinitrotoluene	230,000u
606-20-2	2,6-Dinitrotoluene	230,000u
84-66-2	Diethylphthalate	230,000u
7005-72-3	4-Chlorophenyl-phenylether	230,000u
86-73-7	Fluorene	420,000
100-01-6	4-Nitroaniline	1,100,000u
534-52-1	4,6-Dinitro-2-Methylphenol	1,100,000u
86-30-6	N-Nitrosodiphenylamine (1)	230,000u
101-55-3	4-Bromophenyl-phenylether	230,000u
118-74-1	Hexachlorobenzene	230,000u
87-86-5	Pentachlorophenol	1,100,000u
85-01-8	Phenanthrene	940,000
120-12-7	Anthracene	230,000u
84-74-2	Di-n-Butylphthalate	230,000u
206-44-0	Fluoranthene	90,000J
129-00-0	Pyrene	180,000J
85-68-7	Butylbenzylphthalate	230,000u
91-94-1	3,3'-Dichlorobenzidine	450,000u
56-55-3	Benzo(a)Anthracene	230,000u
117-81-7	bis(2-Ethylhexyl)Phthalate	230,000u
218-01-9	Chrysene	99,000J
117-84-0	Di-n-Octyl Phthalate	230,000u
205-99-2	Benzo(b)Fluoranthene	230,000J
207-08-9	Benzo(k)Fluoranthene	230,000u
50-32-8	Benzo(a)Pyrene	230,000u
193-39-5	Indeno(1,2,3-cd)Pyrene	230,000u
53-70-3	Dibenz(a,h)Anthracene	230,000u
191-24-2	Benzo(g,h,i)Perylene	230,000u

(1)-Cannot be separated from diphenylamine

Laboratory Name ANALYTICAL RESOURCES, INC.

Case No 5839

Sample Number

EH603

Organics Analysis Data Sheet
(Page 3)

86FL05889

Pesticide/PCBs

Concentration Low Medium (Circle One)

Date Extracted/Prepared 4/7/82

Date Analyzed 4/30/82

Conc/Dil Factor 1:20

Percent Moisture (decanted) 56.6

GPC Cleanup Yes NoSeparatory Funnel Extraction YesContinuous Liquid - Liquid Extraction Yes

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CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha BHC	6300u
319-85-7	Beta-BHC	6300u
319-86-8	Delta-BHC	6300u
58-89-9	Gamma-BHC (Lindane)	6300u
76-44-8	Heptachlor	6300u
309-00-2	Aldrin	6300u
1024-57-3	Heptachlor Epoxide	6300u
959-98-8	Endosulfan I	6300u
60-57-1	Dieldrin	13,000u
72-55-9	4,4'-DDE	13,000u
72-20-8	Endrin	13,000u
33213-65-9	Endosulfan II	13,000u
72-54-8	4,4'-DDD	13,000u
1031-07-8	Endosulfan Sulfate	13,000u
50-29-3	4,4'-DDT	13,000u
72-43-5	Methoxychlor	63,000u
53494-70-5	Endrin Ketone	13,000u
57-74-9	Chlordane	63,000u
8001-35-2	Toxaphene	130,000u
12674-11-2	Aroclor-1016	63,000u
11104-28-2	Aroclor-1221	13,000u
11141-16-5	Aroclor-1232	63,000u
53469-21-9	Aroclor-1242	13,000u
12672-29-6	Aroclor-1248	63,000u
11097-69-1	Aroclor-1254	130,000u
11096-82-5	Aroclor-1260	130,000u

 V_i = Volume of extract injected (ul) V_g = Volume of water extracted (ml) W_s = Weight of sample extracted (g) V_t = Volume of total extract (ul)

V_s NA or W_s 0.378 (mg) V_i 10,000 V_t 20

Organics Analysis Data Sheet
(Page 4)

86FL05589

Tentatively Identified Compounds

RECEIVED JUN 19 1986

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. -	UNKNOWN bp 43 (Hydrocarbon)	VOA	465	780,000 J
2. -	UNKNOWN bp 57 (Hydrocarbon)	1	516	480,000 J
3. 109-08-7	Pentane, 2,4-dimethyl-		558	410,000 J
4. -	UNKNOWN bp 56 (Hydrocarbon)		572	1,500,000 J
5. -	UNKNOWN bp 43 (Hydrocarbon)		611	760,000 J
6. -	UNKNOWN bp 43 (Hydrocarbon)		626	630,000 J
7. 594-82-1	Butane, 2,2,3,3-tetramethyl-		649	4,600,000 J
8. 16747-28-7	Hexane, 2,3,3-trimethyl-		697	450,000 J
9. -	UNKNOWN bp 43 (Hydrocarbon)		774	420,000 J
10. 921-47-1	Hexane, 2,3,4-trimethyl-	↓	825	950,000 J
11. 95-63-6	Benzene, 1,2,4-trimethyl-	BAN	532	2,900,000 J
12. 871-83-0	Nonane, 2-methyl -		674	3,000,000 J
13. -	UNKNOWN bp 43 (Hydrocarbon)		800	4,200,000 J
14. 17301-23-4	Undecane, 2,6-dimethyl-		815	2,400,000 J
15. -	UNKNOWN bp 57 (Methylnaphthalene + He)		916	4,900,000 J
16. -	UNKNOWN bp 142 (Methylnaphthalene + He)		934	2,400,000 J
17. -	UNKNOWN bp 57 (Hydrocarbon)		1026	5,800,000 J
18. -	UNKNOWN bp 57 (Dimethylnaphthalene + He)		1073	3,600,000 J
19. -	UNKNOWN bp 57 (Hydrocarbon)		1090	5,000,000 J
20. -	UNKNOWN bp 57 (Hydrocarbon)		1127	5,100,000 J
21. -	UNKNOWN bp 57 (Hydrocarbon)		1225	6,000,000 J
22. -	UNKNOWN bp 57 (Hydrocarbon)		1269	4,300,000 J
23. -	UNKNOWN bp 43 (Hydrocarbon)		1317	4,000,000 J
24. -	UNKNOWN bp 57 (Hydrocarbon)		1322	3,000,000 J
25. -	UNKNOWN bp 57 (Hydrocarbon + Phenanthrene)		1458	3,500,000 J
26. 74-45-98-0	Dodecane, 2,7,10-trimethyl-		1410	2,000,000 J
27. 31081-18-2	Nonane, 3-methyl-5-propyl-		1482	1,800,000 J
28. 629-59-4	Tetradecane		1561	2,200,000 J
29. 62238-11-3	Decane, 2,3,5-trimethyl -	↓	1634	1,500,000 J
30. 629-97-0	Decalone	↓	1705	1,400,000 J

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD/Central Regional Laboratory
DATA TRACKING FORM FOR CONTRACT SAMPLES

CRL Data Set No. SF 3170 CERCLIS No. RECEIVED 7-10-1986

SMO Case No. 5839 Site Name and Location: Mobil Oil Corp.

Name of Contractor or EPA Laboratory: ARI Data User: FIT

No. of Samples: 3 Date Samples or Data Received: 5-21-86

1. Have chain-of-custody records been received? YES NO
2. Have Traffic Reports or packing lists been received? YES NO
3. If no, are Traffic Report or packing list numbers written on the chain-of-custody record? YES NO
4. If no, which Traffic report or packing list numbers are missing?

Are basic data forms in? YES NO

Number of samples claimed: 3 Number of samples received: 3

Checked by: Sylvia Griffin Date: 5-22-86

Received by Contract Project Management Section: Thomas Date: 5/22/86

Review Started: 5/21/86 Reviewer Signature: Tony G

Total time spent on review: 4 Date review completed: 5/22/86

Copied (xeroxed) by: Michael Date: _____

Mailed to Data User by: Mildred Filiano Date: 6/18/86

DATA USERS:

Please fill in the blanks below and return this form to: Sylvia Griffin, Data Management Coordinator, Region V, 5SCR

Data received by: Cynthia Rugh Date: 6-20-86

Q.A. review received by: Cynthia Rugh Date: 6-20-86

Inorganic Data Complete [], Suitable for Intended Purposes [] [] if acceptable.
Organic Data Complete [X] [], Suitable for Intended Purposes [] List problems below.
Dioxin Data Complete [], Suitable for Intended Purposes []
SAS Data Complete [], Suitable for Intended Purposes []

See Attached "Missing Data Request Form" []

PROBLEMS: Please indicate reasons (if any) why data are not suitable for your uses.
Other problems.

Received by Data Management Coordinator, CRL for File: Date: _____

Signature: _____